

~~(S) In EC.~~

~~HO4N 1/19~~

G03F 7/20

603F 9/00

606T 1/00

H01L 21/027

H01L 27/148

// H04N 5/335

(21)Application number : 2000-379003

(71)Applicant : NIKON CORP

(22)Date of filing : 13.12.2000

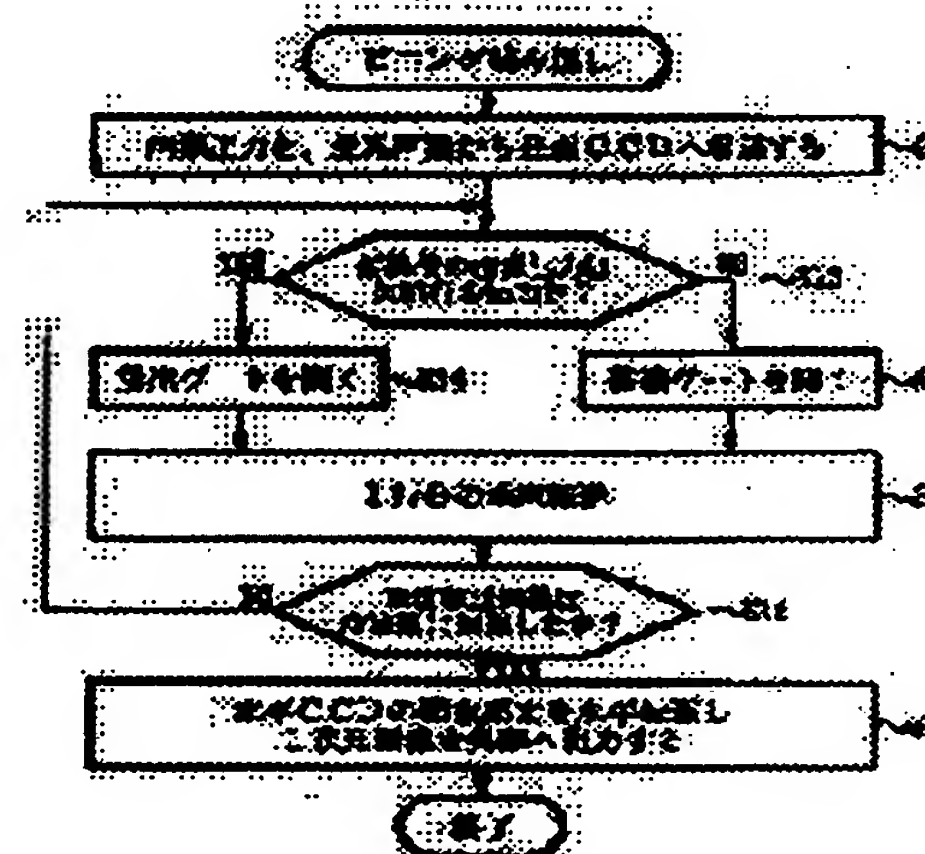
(72)Inventor : KOMAI ATSUSHI

(54) IMAGE PICKUP DEVICE, EXPOSURE DEVICE, MEASUREMENT DEVICE AND DRIVING METHOD FOR IMAGE PICKUP DEVICE

(57)Abstract:

PROBLEM TO BE SOLVED: To reduce the influence of defective pixels and to provide the linear images of excellent quality in an image pickup device for performing binning read.

SOLUTION: This device is provided with a plurality of light receiving elements two-dimensionally arrayed on a light receiving surface for generating pixel output corresponding to a received light quantity, the group of vertical transfer paths provided by the vertical column unit of the light receiving pixels for vertically transferring the pixel output generated in the light receiving pixels, a horizontal transfer path for horizontally transferring the pixel output outputted from the group of the vertical transfer paths, a binning read part for adding the pixel output successively transferred in the group of the vertical transfer paths in a vertical column direction, reading the added pixel output from the horizontal transfer path and generating a one-dimensional image, a discharge gate for selectively discharging the pixel output being successively transferred in the vertical transfer paths and a storage part for storing location information for the defective pixels in the light receiving pixels. The binning read part discharges the pixel output of a row where the defective pixel is present to the discharge gate based on the location information stored in the storage part.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]